

STN Search Summary
09/957483

=> d his

FILE 'CAPLUS' ENTERED AT 17:55:12 ON 15 DEC 2004

L1 731 S EPOTHILONE
L2 95 S L1 AND (EXTRACT? OR PURIF? OR CRYSTAL? OR RECRYSTAL? OR ISOLA
L3 60 S L1 AND (EXTRACT? OR PURIF? OR CRYSTAL? OR RECRYSTAL?)
L4 35 S L1 AND CRYSTAL?
L5 23 S L4 AND PD<2003
L6 2 S L5 AND WATER
L7 4 S L2 AND WATER
L8 2 S L7 NOT L6
L9 21 S L5 NOT L6

L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:995507 CAPLUS

TI Method for separating and purifying epothilone from the ferment
liquor of Myxobacteria

IN Hu, Wei; Li, Yuezhong; Liu, Xinli; Han, Guanjun

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------|------|----------|-----------------|--------------|
| PI CN 1369484 | A | 20020918 | CN 2002-110067 | 20020207 <-- |
| PRAI CN 2002-110067 | | 20020207 | | |

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:144255 CAPLUS

TI Large-Scale Isolation and Crystallization of Epothilone
D From Myxococcus xanthus Cultures

AU Arslanian, Robert L.; Parker, Charles D.; Wang, Peter K.; McIntire, James
R.; Lau, Janice; Starks, Courtney; Licari, Peter J.

SO Journal of Natural Products (2002), 65(4), 570-572

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:113397 CAPLUS

TI Process for the preparation of epothilone analogs

IN Li, Wen Sen; Thornton, John E.; Guo, Zhenrong; Swaminathan, Shankar

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------|------|----------|-----------------|----------|
| PI US 6518421 | B1 | 20030211 | US 2001-775361 | 20010201 |
| US 2003004338 | A1 | 20030102 | US 2001-946721 | 20010905 |
| WO 2002060904 | A2 | 20020808 | WO 2002-US1853 | 20020122 |
| WO 2002060904 | A3 | 20030227 | | |
| PRAI US 2000-528526 | A2 | 20000320 | | |
| US 2001-775361 | A2 | 20010201 | | |
| US 2001-946721 | A | 20010905 | | |

OS CASREACT 138:153369; MARPAT 138:153369

L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:540805 CAPLUS

TI Prediction of the binding site of Paclitaxel, Epothilone, and
Discodermolide on by docking studies.

AU Bhonsle, Jayendra B.; Avery, Mitchell A.

CS Department of Medicinal Chemistry, School of Pharmacy, University of
Mississippi, University, MS, 38677, USA

SO Book of Abstracts, 218th ACS National Meeting, New Orleans, Aug. 22-26
(1999), COMP-094 Publisher: American Chemical Society, Washington, D. C.

L9 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:314889 CAPLUS
 DN 136:340534
 TI Method for the production of asymmetrically substituted acyloins and derivatives and for the production of epothilones B, D and their derivatives
 IN Wessjohann, Ludger A.; Scheid, Guenther; Bornscheuer, Uwe; Henke, Erik; Kuit, Wouter; Orru, Romano
 PA Morphochem A.-G., Germany
 SO PCT Int. Appl., 182 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|------------------|--------------|
| PI | WO 2002032844 | A2 | 20020425 | WO 2001-EP11992 | 20011016 <-- |
| | WO 2002032844 | C1 | 20030821 | | |
| | DE 10051136 | A1 | 20020418 | DE 2000-10051136 | 20001016 <-- |
| | DE 10134172 | A1 | 20030123 | DE 2001-10134172 | 20010713 |
| | AU 2002021693 | A5 | 20020429 | AU 2002-21693 | 20011016 <-- |
| | EP 1358144 | A1 | 20031105 | EP 2001-987736 | 20011016 |
| | US 2004082651 | A1 | 20040429 | US 2003-414510 | 20030415 |
| PRAI | DE 2000-10051136 | A | 20001016 | | |
| | DE 2001-10134172 | A | 20010713 | | |
| | WO 2001-EP11992 | W | 20011016 | | |
| OS | CASREACT 136:340534; MARPAT 136:340534 | | | | |

L9 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:142714 CAPLUS
 DN 136:200048
 TI Preparation of polymorphs of an epothilone analog and their use as antitumor agents
 IN Dimarco, John D.; Gougoutas, Jack Z.; Vitez, Imre M.; Davidovich, Martha; Galella, Michael; Malloy, Timothy M.; Guo, Zhenrong; Favreau, Denis
 PA Bristol-Myers Squibb Company, USA
 SO PCT Int. Appl., 36 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---------------|------|----------|-----------------|--------------|
| PI | WO 2002014323 | A2 | 20020221 | WO 2001-US24540 | 20010801 <-- |
| | WO 2002014323 | A3 | 20020502 | | |
| | CA 2418109 | AA | 20020221 | CA 2001-2418109 | 20010801 <-- |
| | AU 2001081082 | A5 | 20020225 | AU 2001-81082 | 20010801 <-- |
| | EP 1309597 | A2 | 20030514 | EP 2001-959536 | 20010801 |
| | SI 21100 | C | 20030630 | SI 2001-20055 | 20010801 |
| | BR 2001013234 | A | 20040225 | BR 2001-13234 | 20010801 |
| | JP 2004506638 | T2 | 20040304 | JP 2002-519462 | 20010801 |
| | US 2002188014 | A1 | 20021212 | US 2001-925112 | 20010809 <-- |
| | US 6689802 | B2 | 20040210 | | |
| | BG 107467 | A | 20030930 | BG 2003-107467 | 20030116 |
| | NO 2003000707 | A | 20030415 | NO 2003-707 | 20030214 |
| | LT 5138 | B | 20040625 | LT 2003-17 | 20030225 |
| | HR 2003000190 | A1 | 20030430 | HR 2003-190 | 20030314 |

| | | | | | |
|------|-----------------|----|----------|----------------|----------|
| | US 2004157897 | A1 | 20040812 | US 2004-773819 | 20040206 |
| PRAI | US 2000-225590P | P | 20000816 | | |
| | WO 2001-US24540 | W | 20010801 | | |
| | US 2001-925112 | A1 | 20010809 | | |

L9 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:11427 CAPLUS
 TI Alkyne metathesis: development of a novel molybdenum-based catalyst system and its application to the total synthesis of epothilone A and C
 AU Furstner, Alois; Mathes, Christian; Lehmann, Christian W.
 SO Chemistry--A European Journal (2001), 7(24), 5299-5317

L9 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:816957 CAPLUS
 TI Production of polyketides
 IN Arslanian, Robert L.; Ashley, Gary; Frykman, Scott; Julien, Bryan; Katz, Leonard; Khosla, Chaitan; Lau, Janice; Licardi, Peter J.; Regentin, Rika; Santi, Daniel; Tang, Li

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-----------------|------|----------|-----------------|--------------|
| | ----- | ---- | ----- | ----- | ----- |
| PI | WO 2001083800 | A2 | 20011108 | WO 2001-US13793 | 20010426 <-- |
| | WO 2001083800 | C1 | 20030103 | | |
| | WO 2001083800 | A3 | 20030410 | | |
| | WO 2001083800 | C2 | 20030912 | | |
| | US 6410301 | B1 | 20020625 | US 2000-560367 | 20000428 <-- |
| | US 2002156110 | A1 | 20021024 | US 2001-825876 | 20010403 <-- |
| | US 6589968 | B2 | 20030708 | | |
| | US 6489314 | B2 | 20021203 | US 2001-825856 | 20010403 <-- |
| | US 2002193361 | A1 | 20021219 | | |
| | CA 2404938 | AA | 20011108 | CA 2001-2404938 | 20010426 <-- |
| | AU 2001095195 | A5 | 20011112 | AU 2001-95195 | 20010426 <-- |
| | EP 1320611 | A2 | 20030625 | EP 2001-973782 | 20010426 |
| | JP 2004508810 | T2 | 20040325 | JP 2001-580407 | 20010426 |
| | US 2003073205 | A1 | 20030417 | US 2001-957483 | 20010919 |
| PRAI | US 2000-560367 | A | 20000428 | | |
| | US 2000-232696P | P | 20000914 | | |
| | US 2000-257517P | P | 20001221 | | |
| | US 2001-269020P | P | 20010213 | | |
| | US 2001-825856 | A | 20010403 | | |
| | US 2001-825876 | A | 20010403 | | |
| | US 1998-109401P | P | 19981120 | | |
| | US 1999-119386P | P | 19990210 | | |
| | US 1999-122620P | P | 19990303 | | |
| | US 1999-130560P | P | 19990422 | | |
| | US 1999-443501 | A2 | 19991119 | | |
| | WO 1999-US27438 | A2 | 19991119 | | |
| | WO 2001-US13793 | W | 20010426 | | |

OS MARPAT 135:343416

L9 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:402025 CAPLUS
 TI The 12,13-diol cyclization approach for a truly stereocontrolled total synthesis of epothilone B and the synthesis of a conformationally restrained analog
 AU Martin, Harry J.; Pojarliev, Peter; Kahlig, Hanspeter; Mulzer, Johann
 SO Chemistry--A European Journal (2001), 7(10), 2261-2271

L9 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:597944 CAPLUS
 TI A Novel Application of a Pd(0)-Catalyzed Nucleophilic Substitution
 Reaction to the Regio- and Stereoselective Synthesis of Lactam Analogues
 of the Epothilone Natural Products
 AU Borzilleri, Robert M.; Zheng, Xiaoping; Schmidt, Robert J.; Johnson, James
 A.; Kim, Soong-Hoon; DiMarco, John D.; Fairchild, Craig R.; Gougoutas,
 Jack Z.; Lee, Francis Y. F.; Long, Byron H.; Vite, Gregory D.
 SO Journal of the American Chemical Society (2000), 122(37), 8890-8897

L9 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:316343 CAPLUS
 TI The Olefin Metathesis Approach to Epothilone A and Its Analogs
 AU Nicolaou, K. C.; He, Y.; Vourloumis, D.; Vallberg, H.; Roschangar, F.;
 Sarabia, F.; Ninkovic, S.; Yang, Z.; Trujillo, J. I.
 SO Journal of the American Chemical Society (1997), 119(34),
 7960-7973

L9 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:273850 CAPLUS
 TI Synthesis, Structure Proof, and Biological Activity of Epothilone
 Cyclopropanes
 AU Johnson, James; Kim, Soong-Hoon; Bifano, Marc; DiMarco, John; Fairchild,
 Craig; Gougoutas, Jack; Lee, Francis; Long, Byron; Tokarski, John; Vite,
 Gregory
 SO Organic Letters (2000), 2(11), 1537-1540

L9 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1997:528752 CAPLUS
 TI The Olefin Metathesis Approach to Epothilone A and Its Analogs
 AU Nicolaou, K. C.; He, Y.; Vourloumis, D.; Vallberg, H.; Roschangar, F.;
 Sarabia, F.; S.Ninkovic; Yang, Z.; Trujillo, J. I.
 SO Journal of the American Chemical Society (1997), 119(34), 7960-7973

L9 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1997:330310 CAPLUS
 TI Synthesis of epothilones A and B in solid and solution phase
 AU Nicolaou, K. C.; Winssinger, N.; Pastor, J.; Ninkovic, S.; Sarabia, F.;
 He, Y.; Vourloumis, D.; Yang, Z.; Li, T.; Giannakakou, P.; Hamel, E.
 SO Nature (London) (1997), 387(6630), 268-272

L9 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1997:149897 CAPLUS
 TI Synthesis of the C1-C9 segment of epothilons
 AU Claus, Eckhard; Pahl, Axel; Jones, Peter G.; Meyer, Hartmut M.; Kalesse,
 Markus
 SO Tetrahedron Letters (1997), 38(8), 1359-1362

L9 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1996:473443 CAPLUS
 TI Antibiotics from gliding bacteria. 77. Epothilone A and B -
 novel 16-membered macrolides with cytotoxic activity: isolation,
 crystal structure, and conformation in solution
 AU Hoefle, Gerhard; Bedorf, Norbert; Steinmetz, Heinrich; Schomburg, Dietmar;
 Gerth, Klaus; Reichenbach, Hans
 SO Angewandte Chemie, International Edition in English (1996),
 35(13/14), 1567-1569

STN Search Summary
09/957483

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FILE 'REGISTRY' ENTERED AT 16:19:43 ON 15 DEC 2004

L6 1 S (METHYL OLEATE)/CN

FILE 'CAPLUS' ENTERED AT 16:21:17 ON 15 DEC 2004

L7 3317 S L6

L8 3 S L7 AND (EPOTHILONE OR XANTHUS)

L8 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:174509 CAPLUS

TI Preparation of epothilone derivatives for treatment of diseases

or conditions characterized by cellular hyperproliferation, such as cancer

IN Ashley, Gary; Arslanian, Robert L.; Carney, John; Metcalf, Brian; Tang, Li

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------------|------|----------|-----------------|----------|
| US 2003045711 | A1 | 20030306 | US 2002-115198 | 20020402 |
| US 2002156110 | A1 | 20021024 | US 2001-825876 | 20010403 |
| US 6589968 | B2 | 20030708 | | |
| US 6489314 | B2 | 20021203 | US 2001-825856 | 20010403 |
| US 2002193361 | A1 | 20021219 | | |
| PRAI US 2001-269020P | P | 20010213 | | |
| US 2001-825856 | A2 | 20010403 | | |
| US 2001-825876 | A2 | 20010403 | | |

OS MARPAT 138:221394

L8 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:370405 CAPLUS

TI Optimizing the heterologous production of epothilone D in

Myxococcus xanthus

AU Lau, Janice; Frykman, Scott; Regentin, Rika; Ou, Sally; Tsuruta, Hiroko;

Licari, Peter

SO Biotechnology and Bioengineering (2002), 78(3), 280-288

L8 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:816957 CAPLUS

TI Production of polyketides

IN Arslanian, Robert L.; Ashley, Gary; Frykman, Scott; Julien, Bryan; Katz,

Leonard; Khosla, Chaitan; Lau, Janice; Licardi, Peter J.; Regentin, Rika;

Santi, Daniel; Tang, Li

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| WO 2001083800 | A2 | 20011108 | WO 2001-US13793 | 20010426 |
| WO 2001083800 | C1 | 20030103 | | |
| WO 2001083800 | A3 | 20030410 | | |
| WO 2001083800 | C2 | 20030912 | | |
| US 6410301 | B1 | 20020625 | US 2000-560367 | 20000428 |
| US 2002156110 | A1 | 20021024 | US 2001-825876 | 20010403 |
| US 6589968 | B2 | 20030708 | | |
| US 6489314 | B2 | 20021203 | US 2001-825856 | 20010403 |
| US 2002193361 | A1 | 20021219 | | |
| CA 2404938 | AA | 20011108 | CA 2001-2404938 | 20010426 |
| AU 2001095195 | A5 | 20011112 | AU 2001-95195 | 20010426 |
| EP 1320611 | A2 | 20030625 | EP 2001-973782 | 20010426 |
| JP 2004508810 | T2 | 20040325 | JP 2001-580407 | 20010426 |
| US 2003073205 | A1 | 20030417 | US 2001-957483 | 20010919 |

| | | | | |
|------|-------------------|--------------|----|----------|
| PRAI | US | 2000-560367 | A | 20000428 |
| | US | 2000-232696P | P | 20000914 |
| | US | 2000-257517P | P | 20001221 |
| | US | 2001-269020P | P | 20010213 |
| | US | 2001-825856 | A | 20010403 |
| | US | 2001-825876 | A | 20010403 |
| | US | 1998-109401P | P | 19981120 |
| | US | 1999-119386P | P | 19990210 |
| | US | 1999-122620P | P | 19990303 |
| | US | 1999-130560P | P | 19990422 |
| | US | 1999-443501 | A2 | 19991119 |
| | WO | 1999-US27438 | A2 | 19991119 |
| | WO | 2001-US13793 | W | 20010426 |
| OS | MARPAT 135:343416 | | | |

WEST Search History

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DATE: Wednesday, December 15, 2004

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| | | <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i> | |
| <input type="checkbox"/> | L20 | L19 same (water or h2o) | 29 |
| <input type="checkbox"/> | L19 | L17 same epothilone | 107 |
| <input type="checkbox"/> | L18 | L17 and epothilone | 590 |
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END OF SEARCH HISTORY

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| <input type="checkbox"/> | L13 | methyl adj oleate | 2707 |

END OF SEARCH HISTORY